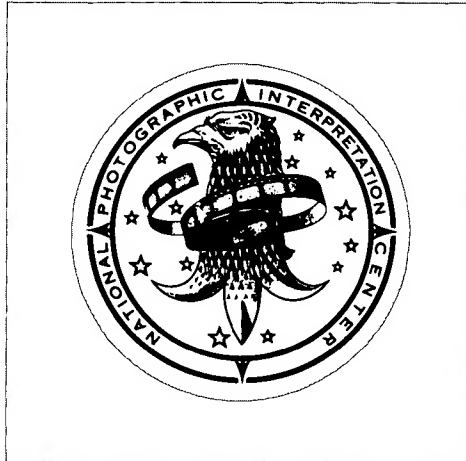


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**NATIONAL PHOTOGRAPHIC  
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**P**HOOTOGRAPHIC  
**I**NTERPRETATION  
**R**EPORT

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**SCUD MISSILES PROBABLY  
EQUIPPED WITH FAD-708  
INSTRUMENTATION AT EMBA, USSR (TSR)**

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PIR-041/79

MAY 1979

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## SCUD MISSILES PROBABLY EQUIPPED WITH FAD-708 INSTRUMENTATION AT EMBA, USSR

1. (TSRZ) Analysis of 1977 and 1978 imagery [ ] of Emba Missile Test Center [ ], USSR, has revealed that SCUD missiles are probably equipped with field arbitrary designator (FAD)-708 instrumentation.

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2. (TSRZ) [ ]

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[ ] The increased number of SCUD warhead containers seen on imagery during approximately the same time frame correlates with the number of FAD-708 launches. These containers were observed adjacent to one of two SCUD-associated checkout/support buildings at the Emba MTC Operations Area [ ] (Table 2). No SCUD warhead containers were identified at this building prior to the start of the FAD-708 launch program.

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3. (TSRZ) A SCUD warhead container was first identified near the SCUD-associated checkout/storage building on imagery of [ ] (Figure 1). [ ]

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4. (TSRZ) By [ ] early preparations were possibly underway for the 1978 launch series. Two discarded warhead containers were seen near the checkout/storage [ ]

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[ ]<sup>5,6</sup> Eight discarded containers were observed on imagery of [ ] (Figure 3), and nine were seen on [ ] (Figure 4). The total number of containers observed correlates closely with the total number of FAD-708 launches detected.

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5. (TSRZ) Other photographic intelligence supports the conclusion that the SCUD is probably equipped with FAD-708 instrumentation. During the last several years, only one

*Table 2. Number of SCUD Warhead Containers  
Adjacent to SCUD-Associated Checkout/Storage  
Building Emba MTC, 1977-1979*  
*This table in its entirety is classified TOP SECRET RUFF*

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Date	Number Observed
	0
	1
	2
	3
	4
	5
	8
	9

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SCUD transporter has usually been seen at Emba, and the SCUD transporter-erector-launcher (TEL; MAZ-543) has been seen only occasionally. But on [redacted] a week before a FAD-708 launch, a convoy including a SCUD TEL, a SCUD transporter with a SCUD airframe, a SCUD oxidizer transporter, and a SCUD fuel truck were parked adjacent to the checkout/storage building (Figure 5). A second SCUD transporter was out of convoy. By [redacted] the SCUD TEL had returned to the checkout/support building, and the SCUD airframe seen on [redacted] was not observed.

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6. (TSRZ) On [redacted] two SCUD missile transporters were observed at the checkout/storage building. One transporter was missing on [redacted]

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7. (TSRZ) On [redacted] a SCUD TEL and a support truck were observed at the Emba SA-1 Launch Facility [redacted] Figure 6).

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8. (TSRZ) The purpose of the FAD-708 launch program at Emba is not known. There is no direct photographic evidence available to associate the FAD-708 with any of the other known missile systems under development at the Emba Missile Test Center.



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## REFERENCES

### IMAGERY

(TSR) All applicable KEYHOLE imagery acquired from [redacted]  
[redacted] was used in the preparation of this report.

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### DOCUMENTS

1. MIA. Weekly Wire Supplement NR. 77-36. *FAD-708 Activity (TSZ)*, 281517Z Oct 77 (TOP SECRET [redacted])
2. DEFSMAC. K/DQ/1123-78, *Unidentified Missile (FAD-708) Launched at the Emba Missile Test Center on* [redacted] 282138Z Aug 78 (TOP SECRET [redacted])
3. DEFSMAC. K/DQ/1193-78, *FAD-708 Monitored Vehicle Launched at the EMTC on* [redacted] 061912Z Sep 78 (TOP SECRET [redacted])
4. DEFSMAC. K/DQ/1412-78, *Data Summary for the Launch of a FAD-708 Monitored Vehicle at Emba on* [redacted] 121359Z Oct 78 (TOP SECRET [redacted])
5. DEFSMAC. K/DQ/1574-78, *FAD-708 Monitored Vehicle Launched from the EMTC on* [redacted] 081421Z Nov 78 (TOP SECRET [redacted])
6. DEFSMAC. K/DQ/1650-78, *FAD-708 Monitored, Unidentified Missile, Surface Launched at the Emba Missile Test Center.* [redacted] 151546Z Dec 78 (TOP SECRET [redacted])

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### REQUIREMENT

Project 130092NT

(S) Comments and queries regarding this report are welcome. They may be directed to [redacted] Warsaw  
Pact Forces Division, Imagery Exploitation Group, NPIC, [redacted]

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